



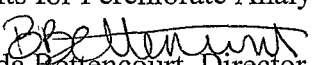
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX LABORATORY  
1337 S. 46TH STREET  
BLDG. 201  
RICHMOND, CA 94804-4698

DEC 06 1999

MEMORANDUM

SUBJECT: Case R00S07, SDG 99308B  
Results for Perchlorate Analysis

FROM:   
Brenda Bettencourt, Director  
EPA Region 9 Laboratory (PMD-2)

TO: Craig Cooper, Remedial Project Manager  
Hawaii, Nevada, California Cleanup Section (SFD-7-4)

Attached are the report narrative and results spreadsheet from analysis of samples from the Newmark Superfund site. These data have been reviewed in accordance with EPA Region 9 Laboratory policy. Summary information for the data included in this report is as follows:

SITE/PROJECT:	Newmark
CASE:	R00S07
LABORATORY:	U. S. EPA Region 9 Laboratory
SAMPLE DELIVERY GROUP:	99308B
ANALYSIS:	Perchlorate (R9 Lab SOP 531)

A full documentation package for these data, including raw data and sample custody documentation, has been prepared and is on file at the Region 9 Laboratory. Please contact Vance Fong of the Quality Assurance Program (PMD-3) to request review and/or validation of the data.

If you have any questions please contact Rich Bauer at (510) 412-2312, or Ken Hendrix at (510) 412-2321.

ATTACHMENT: Analytical Report

**USEPA REGION 9 LABORATORY**  
**REPORT NARRATIVE**

<b>CASE NUMBER:</b>	<b>R00S07</b>
<b>SAMPLE DELIVERY GROUP:</b>	<b>99308B</b>
<b>PROGRAM:</b>	<b>SUPERFUND</b>
<b>DOCUMENT CONTROL #:</b>	<b>ESTW-9B-2759</b>
<b>DATE:</b>	<b>12/02/99</b>
<b>ANALYSIS:</b>	<b>PERCHLORATE</b>

**SAMPLE NUMBERS:**

<b><u>SAMPLE ID</u></b>	<b><u>LABORATORY SAMPLE ID</u></b>
50199	AB25384
50201	AB25385
50221	AB25386
50160	AB25387
50161	AB25388
50162	AB25389
50130	AB25391
50131	AB25392
50132	AB25393
50135	AB25394
50134	AB25395
50133	AB25396
50206	AB25397
50204	AB25398
50205	AB25399
50224	AB25400
50222	AB25401
50218	AB25402
50215	AB25403

**GENERAL COMMENTS**

Nineteen groundwater samples were received from the Newmark Source OU Superfund project on 11/04/99.

The requested analysis was perchlorate (Region 9 Laboratory SOP 531). All samples were analyzed within the required holding times.

**SAMPLE RECEIPT AND PRESERVATION**

All samples were received at a temperature of 9°C on 11/04/99. All custody seals were intact.

**QA/QC SUMMARY**

No analyte was detected in the blank associated with this SDG.

All LFM recoveries were within the QC limits.

The RPDs for all duplicates were less than or equal to the 20% QC limit for all analytes where the sample result was greater than or equal to 5 times the quantitation limit. For analytes where the sample result was less than 5 times the quantitation limit the difference between the duplicates was less than the quantitation limit.

The LFB recovery was within the QC limits.

Questions concerning the data can be answered by Patrick Hirata at (510) 412-2354.

### Laboratory Reagent Blanks (LRB)

A laboratory reagent blank is laboratory reagent water or baked sand with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. The laboratory reagent blank is used to determine the level of contamination introduced by the laboratory during analysis.

### Laboratory Fortified Matrix and Laboratory Duplicate Analysis

The laboratory fortified matrix spike sample and laboratory duplicate analyses provide information about the effect of the sample matrix on sample preparation and measurement. Poor percent recovery (%R) results and large relative percent difference (RPD) between duplicates may indicate inconsistent laboratory technique, sample nonhomogeneity in soils, or matrix effects which may interfere with analysis.

### Laboratory Fortified Blank (LFB) Analysis

The laboratory fortified blank is laboratory reagent water or baked sand with a known concentration of the analytes of interest added by the laboratory with all reagents added and carried through the same sample preparation and analytical procedures as the field samples. Poor percent recovery (%R) results may indicate inconsistent laboratory technique.

**EPA REGION 9 LABORATORY-RICHMOND, CA  
SUMMARY OF ANALYTICAL RESULTS**

**Case Number:** R00S07  
**Site:** Newmark Source OU  
**SDG:** 99308B  
**Date:** 12/02/99

**Analysis:** Perchlorate  
**Matrix:** Water

Station Location	MWCOE-01A			MWCOE-01B			MUNI-107			MW10A			MW10B			MW10C		
Sample I.D.	50199			50201			50221			50160			50161			50162		
Lab Sample I.D.	AB25384			AB25385			AB25386			AB25387			AB25388			AB25389		
Date of Collection	11/01/99			11/01/99			11/02/99			11/02/99			11/03/99			11/03/99		
Analyte	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com
Perchlorate (ug/L)	3		J	5		U	5		U	5		U	5		U	5		U

Com - Comments refer to the corresponding section in the report narrative for each letter.

N/A - Not Applicable.

N/R - Not Required.

Q - Refer to data qualifiers.

U - The parameter was analyzed for, but was not detected; The associated value is the sample detection limit, adjusted for dilution, if any.

J - The associated value is an estimated quantity.

Station Location	MW01A			MW01B			MW01C			MW01D			MW01C			MW01C		
Sample I.D.	50130			50131			50132			50135			50134			50133		
Lab Sample I.D.	AB25391			AB25392			AB25393			AB25394			AB25395			AB25396		
Date of Collection	11/02/99			11/02/99			11/02/99			11/02/99			11/02/99			11/02/99		
Analyte	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com	Result	Q	Com
Perchlorate (ug/L)	5		U	5		U	5		U	5		U	5		U	5		U

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**EPA REGION 9 LABORATORY-RICHMOND, CA**  
**SUMMARY OF ANALYTICAL RESULTS**

**Case Number:** R00S07  
**Site:** Newmark Source OU  
**SDG:** 99308B  
**Date:** 12/02/99

**Analysis:** Perchlorate  
**Matrix:** Water

<b>Station Location</b>	MUNI-01			MUNI-01			MUNI-01			MUNI-112			MUNI-108			MUNI-102		
<b>Sample I.D.</b>	50206			50204			50205			50224			50222			50218		
<b>Lab Sample I.D.</b>	AB25397			AB25398			AB25399			AB25400			AB25401			AB25402		
<b>Date of Collection</b>	11/02/99			11/02/99			11/02/99			11/02/99			11/02/99			11/02/99		
<b>Analyte</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>
Perchlorate (ug/L)	5 U			5 U			5 U			5 U			5 U			5 U		

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<b>Station Location</b>	MUNI-101			N/A			<b>Quantitation</b>
<b>Sample I.D.</b>	50215			Reagent Blank			<b>Limit</b>
<b>Lab Sample I.D.</b>	AB25403			N/A			N/A
<b>Date of Collection</b>	11/02/99			N/A			N/A
<b>Analyte</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>	<b>Q</b>	<b>Com</b>	<b>Result</b>
Perchlorate (ug/L)	5 U			5 U			5

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